1		0	9/11/84	
⊗EPA	POTENTIAL HAZARDOUS I		ed by	NUMBER (10 be *** 7 Hg) 05851
File. De sure to include all	Complete Sections I and III through Teats*ve Disposition (Section II), appropriate Supplemental Reports in g System; Hazardous Waste Enforce	the file. Submit a copy of the	e forms to: U.S. E	Environmental Pro-
	I. SITE IDEN	NTIFICATION		
A. SITE NAME Gulf Coast Disposa	hutboritu	8. STREET (or other identifier) 2401 Fifth Ave.		
C. CITY	The state of the s	D. STATE E. ZIP CODE	IF. COUNTY NA	ME
G. SITE OPERATOR INFORMA	80625990	TX 77590	Galvest	on
Charles Ganze 3. STREET 910 Bay Area Blvd.	Assistant General Mar		(713) 4 5. STATE TX	
I. NAME	TON (If different from operator of elia)		1 2. TELEPHON	E NUMBER
Gulf Coast Disposa	1 Authority		(713) 4	
1. CITY			4. STATE	S. ZIP CODE
Houston,			TX	77058
Public Owned Treats	ment Works			
J. TYPE OF OWNERSHIP	MALLE TO A RE			
1. FEDERAL 2	STATE 3. COUNTY X	4. MUNICIPAL S. PRI	VATE	
A. ESTIMATE DATE OF TENT		N (complete this section last,)	
DISPOSITION (mo., dey, & yr.	1. HIGH	2. MEDIUM . 3. LON	X 4. NON	E
C REFERENCE IN FORMATION				
C. PREPARER INFORMATION		2. TELEPHONE NUMBER	3. DATE (mos,	day, & yn.)
				der, & rn.)
Wayne Crawley	III. INSPECTIO	2. TELEPHONE NUMBER	S. DATE (mos,	day, & rr.)
I. NAME	III. INSPECTION	2- TELEPHONE NUMBER (409) 693-8716	S. DATE (mos,	day, & yn.)
I. NAME Wayne Crawley A. PRINCIPAL INSPECTOR INI	III. INSPECTION	2. TELEPHONE NUMBER (409) 693-8716 N INFORMATION	5-2-84	
I. NAME Wayne Crawley A. PRINCIPAL INSPECTOR :NI I. NAME	III. INSPECTION	2. TELEPHONE NUMBER (409) 693-8716 N INFORMATION	3. DATE (mo., 5-2-84	E No. (area cade &
I. NAME Wayne Crawley A. PRINCIPAL INSPECTOR INI I. NAME Wayne Crawley L. ORGANIZATION K. W. Brown and Ass	sociates, Inc.	2. TELEPHONE NUMBER (409) 693-8716 N INFORMATION	5-2-84	E No. (area cade &
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	III. II	SPECTION INFORMATION	continued)		
D. GENERATOR INFORMATIO					
1. NAME	I. TELEPHONE NO		DRESS	A MASTE T	PE GENERAT
		2401 Fifth Ave.		-	
Amoco Oil	(409) 945-10	11 S. Texas City,	TX 77590	Petrol	eum
		2800 FM 519			
Amoco Chemical	(409) 948-16	01 Texas City, TX	77590	Petro	Chemical
E. TRANSPORTER/HAULER I	2. TELEPHONE NO.	3. 400		-	
11 11 11 11 11 11 11 11 11 11 11 11 11	4. TALEPHONE NO.	3. 400	DAESS	4.WASTETY	PE TRANSPORT
		IPPED TO OTHER SITES, IDEN			DISPOSAL.
1. NAME	1. TELEPHONE NO.		3. ADDRESS		
Amoon Oil	(400) DAF 30	11 2401 Bish	0		
Amoco Oil	(409) 945-10	11 2401 Fifth Ave.	S. Texas Ci	ty, TX 775	90
(mo. day, & pr.) 5/1/84	H. TIME OF INSPEC	TION I. ACCESS GAINED BY (
J. WEATHER (describe)	3:00pm	1. PERMISSION	2. WARRAL T		
75 - 78° overcast	samples taken and in	e of rain, slight s IV. SAMPLING INFORMATION INCOME. ILLIANTE STATE OF THE STATE O	ON		, contractor,
75 - 78° overcast	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estimate when the	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON sent e.g., regional la		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estimace when the state of the type of the sample type a. SAGUNDWATER	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON sent e.g., regional la		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estunce when the complex type a. SAGUPLE TYPE b. SURPACE WATER	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON sent e.g., regional la		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estuncte when the 1. SAGIPLE TYPE B. BROUNDWATER B. BURFACE MATER C. MASTE	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON sent e.g., regional la		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estunce when the complex type a. SAGUPLE TYPE b. SURPACE WATER	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON sent e.g., regional la		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estuncte when the 1. SAGIPLE TYPE B. BROUNDWATER B. BURFACE MATER C. MASTE	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON sent e.g., regional la		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estimate when the stander over the standard o	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON sent e.g., regional la		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estuace when the standestunce was a standard to the standard	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON sent e.g., regional la		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estuace when the stander of the types of etc. and estuace when the standard of the types of ty	samples taken and in he results will be ave	IV. SAMPLING INFORMATION of the state of the	ON sent e.g., regional la		4. DATE
75 - 78° overcast A. Mark 'X' for the types of etc. and estunate when ti 1. SAUPLE TYPE B. SHOUNDHATER B. SURPACE HATER C. HASTE d. AIR B. TUNOPP E SPILL 6. SOIL	samples taken and in he results will be ave	IV. SAMPLING INFORMATI- idicate where they have been incible. 3. SAMP.	ON sent e.g., regional la		
75 - 78° OVERCAST A. Mark 'X' for the types of etc. and estuace when the time of the type of type	namples laken and in he results will be av- is. Anaryla T. A. Sar- (mark 'E')	IV. SAMPLING INFORMATION CONTROL OF TAKEN NONE TAKEN	ON sent e.g., regional la		4. DATE
75 - 78° OVERCAST A. Mark 'X' for the types of etc. and estuace when the state of the type of typ	namples taken and in the results will be ave 2. saurs, g (men 'E')	IV. SAMPLING INFORMATING ILICATE ILICATE IV. SAMPLING INFORMATING ILICATE IV. SAMPLING IV. SAM	ON sent e.g., regional la		4. DATE
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75 - 78° OVERCAST A. Mark 'X' for the types of etc. and estuace when the state of the type of typ	namples taken and in the results will be ave 2. saurs, g (men 'E')	IV. SAMPLING INFORMATING ILICATE ILICATE IV. SAMPLING INFORMATING ILICATE IV. SAMPLING IV. SAM	ON sent e.g., regional la	ab, other EPA lab	4. DATE
75 - 78° OVERCAST A. Mark 'X' for the types of etc. and estuace when the state of the type of typ	namples taken and in the results will be ave 2. saurs, g (men 'E')	IV. SAMPLING INFORMATING ILICATION IN THE SAMPLE S	ON sent e.g., regional la	ab, other EPA lab	4. DATE

									tinued				
2. Estimate the amou	b. QIL	easu		LVENT				MICAL		e. SOLIDS		t. O.T.	
AMOUNT	AMOUNT	4.5	HOUNT		-		UNT			MOUNT		MOUNT	
100,000	none		no				none			none		none	
gal/day	UNIT OF MEASURE	9	HIT OF	MEAS	HE	Y.M.	. 0	EASUR		NIT OF MEAS	HE	INT OF M	EASURE
	A. OILY	- A		255		10			-	1	-	*1	
(1) PAINT.	MARTER	+	-	VENT	_	-	11.451	-	-	11: FL TASH	_		MACEUT
ELUDGES	11: OTHER(epecify	_	12: OTHER (epecity)				ORS				21 HOSE	STAL	
(IS) POTH		-				HCAU			13 TAILINGS	MINE	(3: #ADIGACT:)		
(A) ALUMINUM							41 PES	1161061		HERROUS	SMELT-	41 MUNI	CIPAL
(SI O THER (epecify):		1				П	91 G Y E	1/ NK.		S MLTG. N	ASTES	1:07H	EN (Ap+c)
							41 C Y A	NIDE	-	6/ Q THER/4	ecity)		
2% solids							71 PHE	NOLS					
		-				H	-	OGENS					
						1	91 # C 0						
		1				H	101ME	TALS			1		
						H	11.01	HERITAP	ecitys				
D. LIST SUBSTANCES	OF CREATEST CONC.	-	- WICH	1050	N THE	SITE	/olace	in desc	endina	order of baracel			
		1	FORM		3.	TOX	CITY	T					T
1. SUBSTA	HCE	. 10-	b.	C. VA	e. migh	b.	e,	d.	4. CA	SNUMBER	5. A	HOUNT	6. UM
			-	- 300	-	-	-		-		-	-	
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		-										-	
FIELD EVALUATION		27:5			ZARD				- th	he listed h	and course	. Descri	he the
hazard in the space p	rovided	110	. 1/1		A in	une i	melt co	marcal	e inat i	ne usted haz	and exist	. Descri	ar une
A. AUMAN HEAL							MI STOR						

in in in

		IV. SAA	APLING INFOR	MA	ATION (continued)		
C. PHOTOS			1				
EX GROUND	RIAL		Wayne (
D. SITE MAPPED!	QF M	IAPS	attached	t	o field book		
E. COORDINATES	-			-		-	
N 29° 22'				1	W 940 551		
	-		V. SITE INFO	OR		-	
A. SITE STATUS	-		11 511 6 1111	-	MA TION	-	
we 1. ACTIVE (Those inductries) or multicipal sites which are being used for main trealment, strenge, or disposal on a continuing basis, even it intre-questly.)				1	3. OTHER(specify) (Those sites that include such includes no regular or continuing use has occurred.)	de	nts like "midnight dumping" the site for weste disposal
B. IS GENERATOR ON SITE? 1. NO 2. YES(A	pecity	generator's lour	-digit SIC Code)				
		,		_		_	
approx 25 acres		D. ARE THE	X Z. YES			nd	monitoring statio
approx 23 acres	_	VI CHAR	ACTEDITATIO		OF SITE ACTIVITY	_	
Indicate the major site activity(ies)					pri	ate boxes.
A. TRANSPORTER	X'	B. 570		×	C. TREATER	X	D. DISPOSER
1. Máile	19	I.PILE		X	1-FILTRATION		1. LANDFILL
2. SHIP	X	Z. SURFACE IMP	OUNDMENT		2. INCINERATION		2. LANDFARM
3. BARGE	П	3. DRUMS			3. VOLUME REDUCTION		S. OPEN DUMP
4. TRUCK		4. TANK, ABOVE	E GROUND	X	4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
S. PIPELINE	\rightarrow	S. TANK. BELOF		X	S. CHEM./PHYS./TREATMENT		S. MIDNIGHT DUMPING
e. OTHER (specify):		e. OTHER(epecil	(r):	X	6. BIOLOGICAL THEATMENT		S. INCINERATION
		93,000,00	00 gal		T. WASTE OIL REPROCESSING		T. UNDERGROUND INJESTIC
				-	A. SOLVENT RECOVERY	-	s. OTHER(specify)
				_	a. OTHER(specify)		
					0,000 gal/day DAF		
					0,000 gal/day digest		
				1	0,000 gal/day primar	¥	solids
E. SUPPLEMENTAL REPORTS TO which Supplemental Reports you	the s	tite falls within a	eny of the catego seched to this for	eie:	s listed below, Supplemental Repor	10	must be completed. Indicate
I. STORAL	2. IN	CINERATION	3. LANDFIL	L	4 SURFACE	5	DEEP WELL
6. CHEM/BIO/	7. LA	NOFARM	_ 8. OPEN DL	_	Seed .	10	RECYCLOR/RECLAIMER
. WASTE TYPE		VII. V	MASTE RELAT	ED	INFORMATION	_	
	2. so	LID	X 3. SLUDGE		A. GAS		
. WASTE CHARACTERISTICS	-			-		-	
1. CORROSIVE	2. IG	NITABLE	T 3. RADIOAG	CTI	VE TA HIGHLY VOLATILE		
		EACTIVE	7. INERT		. FLAMMABLE		
X S. OTHER (specify) POTW	_			_		_	
1. Are records of wastes available	2 Spr	sculy items such	se menifests, in	***	iones, eic. below.		

B. NOW WORKER INJURY/EXPOSURE C. WORKER INJURY/EXPOSURE D. CONTAMINATION OF WATER SUPPLY E. CONTAMINATION OF FOOD CHAIN F. CONTAMINATION OF GA. WO WATER G. CONTAMINATION OF SURFACE WATER	Continued From Page 4	HAZARD DESCRIPTION (continued)	
C. WORKER INJURY/EXPOSURE D. CONTAMINATION OF WATER SUPPLY E. CONTAMINATION OF POOD CHAIN	R. NON-WORKER INJURY/EXPOSURE	HAZARO DESCRIPTION (continued)	
D. CONTAMINATION OF WATER SUPPLY E. CONTAMINATION OF FOOD CHAIN	_ at non-source insource exposure		
D. CONTAMINATION OF WATER SUPPLY E. CONTAMINATION OF FOOD CHAIN			
D. CONTAMINATION OF WATER SUPPLY E. CONTAMINATION OF FOOD CHAIN			
D. CONTAMINATION OF WATER SUPPLY E. CONTAMINATION OF FOOD CHAIN			
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E. CONTAMINATION OF FOOD CHAIN	C. WORKER INJURY/EXPOSURE		
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E. CONTAMINATION OF FOOD CHAIN			
E. CONTAMINATION OF FOOD CHAIN			
F. CONTAMINATION OF GA	D. CONTAMINATION OF WATER SUPPLY		
F. CONTAMINATION OF GA			
F. CONTAMINATION OF GA			
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F. CONTAMINATION OF GA			
F. CONTAMINATION OF GA			
F. CONTAMINATION OF GA			
F. CONTAMINATION OF GA			
F. CONTAMINATION OF GA			
	E. CONTAMINATION OF FOOD CHAIN		
	F. CONTAMINATION OF GR. IND WATER		
G. CONTAMINATION OF SURFACE WATER			
G. CONTAMINATION OF SURFACE WATER			
G. CONTAMINATION OF SURFACE WATER			
3 Continue of States	To contamination of superce		
	G. CONTAMINATION OF SURFACE WATER		
A Form T2070-3 (10-79) PAGE 5 OF 10 Continue On Re	T2020 1 (14 20)	PAGE 5 OF 10	Continue On Reve

Continued From Front VIII. HAZARD DESCRIPTION (Continue)	
M. DAMACE TO FLORA/FAUNA	ed)
I, FISH KILL	
J. CONTAMINATION OF AIR	
XX K. NOTICEABLE ODORS	
Typical odors for oil refinery	
To the cost off ferthery	
L. CONTAMINATION OF SOIL	
M. PROPERTY DAWAGE	
Feet \$2020.3 (10.20)	
mm 72070-3 (10-79) PAGE 6 OF 10	Continue On Page 7

Centinued From Page 6	VIII. HAZARD DESCRIPTION (continued)	
N. FIRE OR EXPLOSION		
O. SPILLS/LEAKING CONTAINERS	RUNOFF/STANDING LIQUID	The state of the s
P. SEWER, STORM DRAIN PROBLE	45	
Q. EROSION PROBLEMS		
Q. ENDSIGN PROBLEMS		
R. INADEQUATE SECURITY		
and the second s		
S. INCOMPATIBLE WASTES		

	-	THE HALARD	DESCRIPTION /continue	ed)		
T. MIDNIGHT DUMPING						
U. OTHER (specify):						
	IX.	POPULATION DIRE	CTLY AFFECTED BY	SITE		
		POPULATION DIRE B. APPROX. NO. EOPLE AFFECTED	CTLY AFFECTED BY C.APPHOX. NO. OF PI AFFECTED WITH		D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (SPECIF UNIA)
IN RESIDENTIAL AREAS		APPROX NO			OF BUILDINGS	(apacity units)
IN RESIDENTIAL AREAS IN COMMERCIAL OR INDUSTRIAL AREAS		EOPLE AFFECTED	C. APPROX. NO. OF PE AFFECTED WITHI UNIT AREA		AFFECTED	(apacity units)
IN RESIDENTIAL AREAS IN COUNTRICIAL AREAS ON INDUSTRIAL AREAS THAT STATE AREAS		9,400	G. APPROX. NO. OF PI AFFECTED WITHI UNIT AREA 9,410		3000	1-2 miles
IN RESIDENTIAL AREAS IN COMMERCIAL OR COMPUTATION AREAS IN PUBLICLY TRANSLAGO AREAS (PARA, SCANOLE, SEC.)	0.5	9,400 4,000 15,700 500	9,400 4,000 15,700	EOPLE	3000 50	1-2 miles
IN REDDENTIAL AREAS IN COMMERCIAL OR INDUSTRIAL AREAS IN PUBLICLY TRAVELLED AREAS FURNIS AREAS [PRINT ARRESTINGS, SEC.] DEFTIN O GROUNDWAYEN PROSIST 12 Feet	0.5	9,400 4,000 15,700 500 X. WATER AN	C.APPROS. NO. 07 PT AFFECTE WITH ANY AFFECTE WITH ANY	TA C. GA	3000 50 0 6	1-2 miles <1 mile <1 mile <2 miles
IN REPORTIAL AREAS IN COMMERCIAL ON HOUSTSIAL AREAS IN RUBLICLY TANYELIED AREAS FUNDING USE AREAS FORENTIAL YIELD OF AQUIFER UNIXINGMI	or e	9,400 4,000 15,700 500 X. WATER AN	C. APPROX. NO. 07 PT APPECTED WITH A PROMISE APPECTED WITH A PROMISE APPECT APP	TA C. GA	3000 50 0 6 0 0 0 11ow groundwater use in	1-2 miles <1 mile <1 mile <2 miles <2 miles vocanies vocanies days a miles days
POTENTIAL VIELS OF AQUIFER UNKNOWN	GOMPAU > 15 CO	9,400 4,000 15,700 500 X. WATER AN B. DIRECTION OF FI	C.APPROS. NO. 07 # AFFECTO WITH AFFECTO WITH UNIT AREA 9,410 4,000 15,700 500 10 HYDROLOGICAL DA	TA C. GR Sha	3000 50 0 6 0 0 0 0 0 11low groundwa	1-2 miles <1 mile <1 mile <2 miles <2 miles vocanies vocanies days a miles days

		X. WATER AND HYDROLOGICAL	DATA (c	ontinued)		
H. LIST ALL DRI	NKING WATER WEL	LS WITHIN A 1/4 MILE RADIUS OF SITE	in the			
1. #6.5	2. DEPTH (specify unit)	(proximity to popular	ION building	4.)	NON-COM- MUNITY (mark 'X')	COMMUN (mark 'X'
						-
RECEIVING WA	TER					
Texas City Discharge	Canal	- 4. LAKES/RESERVOIRS - S.	STREAMS/	ecitri: Canal-Man	made_	
		lveston Bay, which is clas	_			and
ion-contact	recreation	and propagation of fish a	nd Wile	ilife,	Contact	din
LOCATION OF SI	TE IS IN	AL JOIL AND TEGITATION	UH UATA			
A. KNOWN	AULT ZONE	B. KARST ZONE	C. 100 YE	AR FLOOD PLAIN	D. WETLAND	0
E. A REGUL	ATED FLOODWAY	F. CRITICAL HABITAT	G. RECHA	RGE ZONE OR SOLE SOUR	ACE AQUIFER	
		XII. TYPE OF GEOLOGICAL MATE				
Mark 'X' to indic		geological material observed and speci		necessary, the component	parts.	
A. CVERBUI	IDEN 'X	B. BEDROCK (specify below)	х.	C. OTHER (*P	ecity below)	
1. SAND						
C 2. CLAY						
3. GRAVEL						
		XIII. SOIL PERMEAB	ILITY			
A. UNKNOWN D. MODERAT	E (10 to .1 cm/ sec.	B. VERY HIGH (100,000 to 1000 to	m/ **s.)	C. HIGH (1000 to 10 to		ec.)
	2 NO 3. C	OMMENTS				
	REA					
1. YES		OMMENTS				
1. YES 1. DISCHARGE AL 1. YES 1. SLOPE 1. ESTIMATE & CO 0-18	XX 2. NO 3. C	OMMENTS PECIFY DIRECTION OF SLOPE, CONDITION Cacility perimeter slopes			aves the	site.
1. YES 1. DISCHARGE AL 1. YES 1. SLOPE 1. ESTIMATE & CO 0-18	XX 2. NO 3. C	PECIFY DIRECTION OF SLOPE, CONDITI			aves the	site.
1. YES 1. DISCHARGE AT 1. YES SLOPE 1. ESTIMATE & G	XX 2. NO 3. C	PECIFY DIRECTION OF SLOPE, CONDITI			eaves the	site.
1. YES 1. DISCHARGE AL 1. YES 1. SLOPE 1. ESTIMATE & CO 0-18	XX 2. NO 3. C	PECIFY DIRECTION OF SLOPE, CONDITI			eaves the	site.

an applicable permits h	eld by the site	XIV. PERMIT INFO	ORMATION			-	-
A. PERMIT TYRE	R. ISSUING AGENCY	C. PERMIT	D. DATE	E. EXPIRATION	F. 15	COMPL mark 'X'	ANCE
RCRA (storer)	EPA	TX D980625990	(mo.,day,4yr.)	(mar,day,day)		1 10	1 0
Solid Waste Registration #	TDWR	32334					x
Discharge Permit	NPDES	TX 0003522					×
Discharge permit	TOWR	WQ 0000443		Past due*			x
							x
NONE YES (+ummar)	XV. PAST	REGULATORY OR ENF	ORCEMENT ACT	IONS			
NONE YES (Fundament	XV. PAST	REGULATORY OR EMP	ORÇEMENT ACT	IONS			

Currently waiting for renewal of discharge permit - operating under extention.
 EPA waiting on chemical effluent guidelines to be promulgated.

RCRA 3012 Site Inspection Comments Gulf Coast Waste Disposal Authority (GCWDA) American Facility HAZSIT #05851

Documentation of Site Activities

The inspection of the GCWDA American Facility, which is located within the Amoco Oil Refinery in Texas City, was conducted on May 1, 1984. Site inspectors included Wayne Crawley and Sid Johnson of K. W. Brown and Associates, Inc. and company representatives included Charles Ganze and Phillip Cayton.

The inspection began at approximately 3:00 p.m. The site is a publicly owned treatment works (POTW), with the two primary customers being Amoco Oil Company and Amoco Chemical Company. Entrance to the GCWDA facility is through the Amoco O+: Refinery. This appears to be a normal, active wastewater treatment plant. There were no apparent spills or past problem areas. The company officials stated that they had no closed disposal locations on-site.

Waste Management Practices

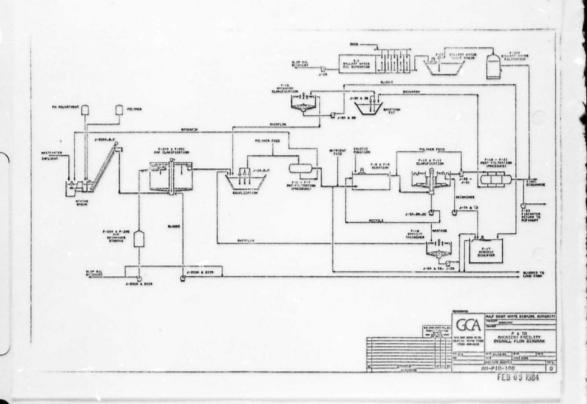
Waste streams (Class II nonhazardous) are delivered to GCNUA via pipelines. After treatment, the water is discharged under an NPDES permit (Texas 0003522) to the Texas City Seawall Discharge Canal. Sludge is piped back to Amoco, where it is either land farmed or is put through a secondary recovery program. For further details of the facility operation see Attachment 1.

Assessment and Conclusions

1

No hazardous materials are received or handled by GCWDA. It appears that the reason this site was on the RCRA 3012 list is because of a proposed landfill by GCMDA near Ellington Air Force Base. The proposed landfill application was withdrawn by GCWDA. A citizen group and the mayor of a nearby town opposed this landfill and filed a complaint with the state.

There were no spills or closed facilities and, therefore, no samples were taken. After an interview and inspection of the facility, it was felt by both inspectors that this facility represented no imminent hazard to health or the environment.



GULF CHAST WASTE DISPOSAL AUTHORITY AMERICAN FACILITY

The Gulf Coast Waste Disposal Authority's American Facility provides joint treatment for the waste streams from Amoco Oil and amoco Chemicals/Plants "A" and "B." The facility provides Intermediate, Secondary and Tertiary treatment, plus waste sludye disposal. The waste streams received by the facility include typical refinery wastes from Amoco Oil and petrochemical wastes from Amoco Chemicals.

The treatment system is comprised of a series of individual processes which perform specific actions on the combined waste stream. The system was designed on an expected influent quality. The design values are listed below:

Influent	Effluent
	23 MGD (87 MLD)
рн 11	6-9.5
TSS 72 mg/1	20 mg/1
BOD 85 mg/l (soluble)	15 mg/1
CJD 300 mg/1	80 mg/1
0+1 45 mg/1	5 mg/l
Phenois 3.0 mg/1	0.1 mg/1
	10.0 mg/1

PROCESSIS

The system is based upon the activated sludge process in which microorganisms remove soluble organic material from the waste stream. The microorganisms are then digested and gradually removed from the system to be disposed of as waste sludge. The steps which make up this particular adaptation of the activated sludge process are as follows:

Nixing
Dissolved Air Fitoation
Equalization
Neutralization
Prefiltration
Nutrient Addition
Assation
Clarification
Post Filtration
Sludge Thickening
Sludge Disposal
Ballast Water Treatment

PROCESS DESCRIPTIONS AND DESIGN

Mixing Basin

The waste streams from the individual industries are combined in the mixing basin at the head of the treatment system. A thorough mixing of these various streams is accomplished by four 15 hp (11.2 kw) 34" (1.4m) diameter submerged impelier mixers. The pH is monitored and adjusted as needed before pumping to the dissolved air units.

Dissolved Air Flotation

The wastewater is pumped out of the mixing basin to the DAF by two 3,000 gpm $(30,280\ 1/m)\ 100\ hy (75\ km)\ 60"\ (1.7m)\ diameter screw pumps. The wastewater enters two 120-foot <math>(36.6m)\ x\ 15-foot\ (4.6m)\ SWD\ (side well depth)\ dissolved air floation tanks. Here most solids and oil and grease are removed for disposal at the landfarm and slop oil system, respectively. Dissolved air is introduced in the e0-foot <math>(18.3m)\ diameter$ center ring of the tanks to form a float of the lighter solids and oils and greases. This float is then removed by four surface skimmer rakes. The heavier solids settle to the bottom and are removed by pumps which pump from the sump in the center of the tank. Such tank is designed for 4-1/2 hours retention time at 7-1/2 NGD flow. The clarified effluent flows into the existing equalization basin.

Equalization

The four hours the flow is in the equalization basin provides a buffer against any short-term shock loads which might enter the system.

Neutralization

The pH of the incoming waste is constantly monitored. Facilities for addition of caustic or acid are provided to neutralize any drastic change in the pH level. Neutralization is primarily carried out in the equalization basin.

Prefiltration

Immediately following the equalization basin are seven pressure-type mixed media filter cells through which the flow is passed on the way to the aeration basins. These filters remove oils and other suspended solids which would not be removed in the aeration step and might interfere with that process. The filters are designed to receive 5 $\rm gpm/ft^2$ (205 $\rm 1/m^2$), with each filter run being 12-16 hours. The design filtrate quality is 10 ppm TSS and 10 ppm Oil.

Aeration

In the aeration stage, microorjanisms are brought into contact with the waste stream. Two 210 ft. (64m) diameter x 22 ft. (6.7m) SWD tanks serve as the aeration basins, each equipped with five 150 horsepower (112 km), low speed, floating type, surface aerators. These aerators grovide 3.3 pounds (1.5 kg) of oxygen per horsepower-hour and one horsepower/lows ft., (28.3m²). This is more than enough to provide the dissolved oxygen seasary for the organic removal and to assure complete mixing within the tanks. Detention time within each tank is 12 hours.

Clarification

Following the aeration stage, the microorganisms and other settleable solids are removed in the clarification state. Two 140 ft. (42.6m) x 18 ft. (5.48m) SWD tanks serve as clarifiers in which the solids settle to the bottom to be removed by suction type mechanisms. A skimming mechanism removes scum which may collect on the surface. The clarifiers are designed for an overflow rate of 750 gallons/day ft2 (30.853) (30.853) and underflow rate of (48.06) (30.853) (30.853) (30.853) (30.853) (30.853) (30.853) (30.853) (30.853) (30.853)

Post Filtration

Twelve (12) mixed media, pressure type filters serve to remove from the secondary designed for a filter rate of 4.9 jpm/ft^2 , a filter run of 16 hours and filterate quality of 10 ppm TSS.

Sludge Thickener

All sludge from the prefilters, clarifiers and post filters is concentrated in a gravity sludge thickener prior to going to the digester. The thickener is 70 ft. (21.3m) diameter x 14 ft. (4.3m) SWD, with a design loading of 2-6 pounds/ft 2 /day (10-30 kg/ 2 /day).

Aerobic Digester

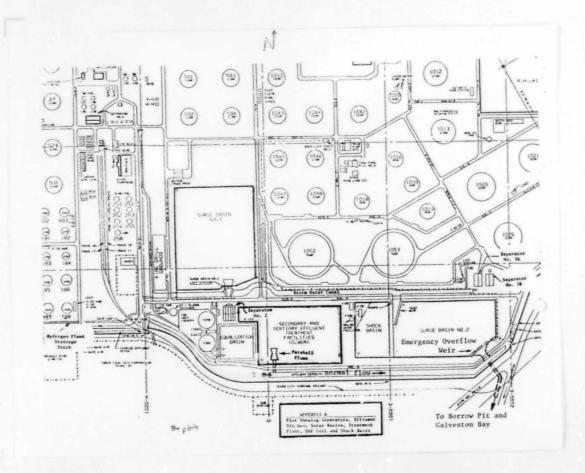
The aerobic diyester serves to stabilize the biological sludge prior to ultimate disposal. The diyester is 100 ft. (30.5m) diameter x 20 ft. (6.1m) SWD, and is equi-ped with r 75 horsepower (64 kW) floating surface aerator. Detention time in the diyester is six days.

Sludge Disposal

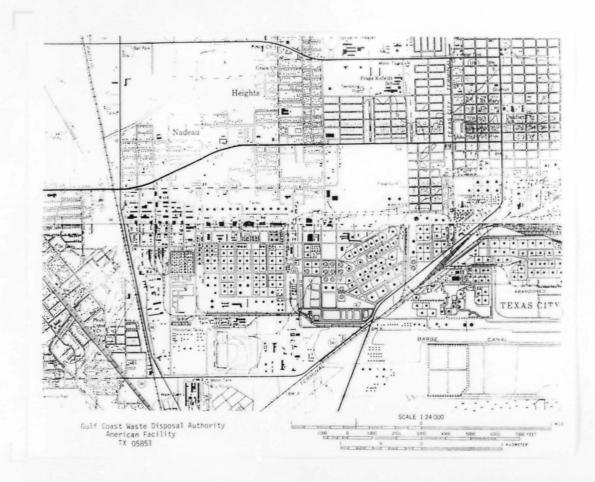
All sludyes generated at the waste treatment plant are pumped to an adjacent landspreading site. Approximately 150 acres (61 hectare) has been dedicated for disposal of the sludyes. The landspread site is divided into five acre (2.02 hectare) plots. Sludye carriage water and rainfall runoff is returned to the wastewater treatment facility for reprocessing. The sludyes are tilled into the soil where naturally occurring soil bacteria are allowed to decompose the organic materials.

Ballast Water Treatment

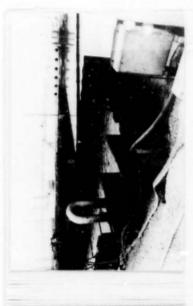
Ballast water is pumped from the docks to the ballast treatment facilty via a 12-inch pipeline. It first passes through a vertical tube coalescer separator for removal of free oil and solids. There are facilities to pump off the oil and return it to Amoco's slop oil system. The effluent from the VTC separator then flows into a triangular storage basin capable of holding 400,000 gallons (1.514,000 1). The water is then pumped by a vertical pump capable of delivering 1400 gpm (5299 1/m) to a multimedia, dual flow filter for a final polishing step prior to disparage. The treated bullast water is pumped through an 8-inch fiberglass profile to the wastewater treatment facility's final effluent line to be measured by the parshall flume and recorded as part of the total plant flow.



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PHOTO 1 notographer / Witness	
layne Crawley/Sidney Johnson	(Special)
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5-1-84/3:30/East	(a) (rec)
omments <u>Effluent Basin</u>	
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PHOTO 2 Photographer / Witness	
Wayne Crawley/Sidney Johnson	
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omments Effluent Basin	
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